



## SEQUENCE LISTING

RECEIVED  
JAN 15 2002  
TECH CENTER 1600/2900

<110> Bibb, James A.  
Greengard, Paul

<120> Methods of Identifying Agents that Regulate  
Phosphorylation/Dephosphorylation in Dopamine Signaling

<130> 600-1-257CIP

<140> 09/687,959

<141> 2000-10-13

<150> 09/419,379

<151> 1999-10-15

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1

Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro  
1 5 10 15

Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg  
20 25 30

Pro Thr Pro Ala Met Leu Phe Arg Leu Ser Glu His Ser Ser Pro Glu  
35 40 45

Glu Glu Ala Ser Pro His Gln Arg Ala Ser Gly Glu Gly His His Leu  
50 55 60

Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro Ser Leu Lys  
65 70 75 80

Ala Val Gln Arg Ile Ala Glu Ser His Leu Gln Ser Ile Ser Asn Leu  
85 90 95

Asn Glu Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg  
100 105 110

Glu Leu Gly Tyr Pro Arg Glu Glu Asp Glu Glu Glu Glu Glu Asp Asp  
115 120 125

Glu Glu Glu Glu Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Val  
130 135 140

Ile Arg Gln Ser Ala Gly Gln Lys Thr Thr Arg Gly Leu Gly Leu Glu  
145 150 155 160

Gly Pro Trp Glu Arg Pro Pro Pro Leu Asp Glu Ser Glu Arg Asp Gly  
165 170 175

Gly Ser Glu Asp Gln Val Glu Asp Pro Ala Leu Ser Glu Pro Gly Glu  
180 185 190

Glu Pro Gln Arg Pro Ser Pro Ser Glu Pro Gly Arg  
195 200

<210> 2  
<211> 201  
<212> PRT  
<213> Mus musculus

<400> 2

Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro  
1 5 10 15

Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg  
20 25 30

Pro Thr Pro Ala Leu Leu Phe Arg Val Ser Glu His Ser Ser Pro Glu  
35 40 45

Glu Glu Glu Glu Glu Ala Ser Pro His Gln Arg Thr Ser Gly Glu Gly  
50 55 60

His His Pro Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro  
65 70 75 80

Ser Leu Lys Ala Val Arg Arg Leu Gln Thr Ile Ser Asn Leu Ser Glu  
85 90 95

Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg Glu Leu  
100 105 110

Gly Tyr Pro Gln Glu Asp Asp Glu Glu Asp Glu Asp Glu Glu Asp  
115 120 125

Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Gly Ser Arg Gly Thr  
130 135 140

Val Gly Gln Lys Leu Leu Val Ala Gly Val Trp Arg Gly Pro Gly Ser  
145 150 155 160

Ala His Leu Leu Trp Met Ser Pro Arg Glu Met Glu Thr Leu Arg Thr  
165 170 175

Lys Trp Lys Ala Glu Gln His Glx Val Ser Leu Glu Arg Asn Leu Ser  
180 185 190

Ile Pro Ala Pro Pro Glu Pro Gly Thr  
195 200

<210> 3  
<211> 205  
<212> PRT  
<213> Rattus sp.

<400> 3

Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro  
1 5 10 15

Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg  
20 25 30

Pro Thr Pro Ala Leu Leu Phe Arg Val Ser Glu His Ser Ser Pro Glu  
35 40 45

Glu Glu Ser Ser Pro His Gln Arg Thr Ser Gly Glu Gly His His Pro  
50 55 60

Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro Ser Leu Lys  
65 70 75 80

Ala Val Gln Arg Ile Ala Glu Ser His Leu Gln Thr Ile Ser Asn Leu  
85 90 95

Ser Glu Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg  
100 105 110

Glu Leu Gly Tyr Pro Gln Glu Asp Asp Glu Glu Asp Glu Asp Glu Asp  
115 120 125

Glu Glu Glu Asp Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Gly  
130 135 140

Ser Arg Gly Thr Ala Gly Gln Lys Leu Thr Ser Gly Gln Gly Leu Glu  
145 150 155 160

Gly Pro Trp Glu Arg Pro Pro Pro Leu Asp Glu Pro Gln Arg Asp Gly  
165 170 175

Asn Ser Glu Asp Gln Gly Glu Gly Arg Ala Thr Gln Ser Glu Pro Gly  
180 185 190

Glu Glu Pro Arg His Pro Thr Pro Pro Glu Ser Gly Thr  
195 200 205

<210> 4  
<211> 203  
<212> PRT  
<213> bovine

<400> 4

Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro  
1 5 10 15

Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg  
20 25 30

Pro Thr Pro Ala Met Leu Phe Arg Leu Ser Glu His Ser Ser Pro Glu  
35 40 45

Glu Glu Ala Ser Pro His Gln Arg Ala Ser Gly Glu Gly His His Leu  
50 55 60

Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro Ser Leu Lys  
65 70 75 80

Ala Val Gln Arg Ile Ala Glu Ser His Leu Gln Ser Ile Ser Asn Leu  
85 90 95

Gly Glu Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg  
100 105 110

Glu Leu Gly Tyr Pro Arg Glu Glu Glu Glu Glu Glu Glu Glu Asp  
115 120 125

Glu Glu Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Gly Ser Arg  
130 135 140

Gly Ser Ala Gly Gln Lys Thr Thr Tyr Gly Gln Gly Leu Glu Gly Pro  
145 150 155 160

Trp Glu Arg Pro Pro Pro Leu Asp Gly Pro Gln Arg Asp Gly Ser Ser  
165 170 175

Glu Asp Gln Val Glu Asp Pro Ala Leu Asn Glu Pro Gly Glu Glu Pro  
180 185 190

Gln Arg Met Pro Ala His Pro Glu Pro Gly Thr  
195 200

<210> 5  
<211> 9  
<212> PRT  
<213> artificial sequence

<220>  
<223> a peptide used as an antigen

<400> 5

Cys Ala Tyr Thr Pro Pro Ser Leu Lys  
1 5

---